CLAIMS

What is claimed is:

first edge and the second edge.

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An optically transmissive film, the film comprising a first surface and a second surface and a first edge and a second edge; and

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The optical element of claim 1, wherein the 2. characteristic is decreased in intensity from the first

location.

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a plurality of optical structures formed in the first surface, the plurality of optical structures being arranged on the first surface in a pattern, and wherein each optical structure has at least one characteristic selected from the group consisting of an amplitude, a period and an aspect ratio, and wherein the characteristic has\a first value for a first predetermined location on the film between the first edge and the second edge and the characteristic has a second value, different from the first value, for a second predetermined location on the film, different than the first predetermined location on the film, between the

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predetermined location at the second predetermined

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- The optical element of claim 1, wherein the first predetermined location is substantially adjacent the first edge.
- 5 4. The optical element of claim 1, wherein the characteristic has a maximum value at the first predetermined location and a minimum value at the second predetermined location.
 - 5. The optical element of claim 1, wherein each optical structure comprises a discrete optical formation within the first surface.
 - 6. The optical element of claim 5, wherein the discrete optical formation comprises a formation selected from the group comprising a prism, a line, a square, a dot and an ellipse.
 - 7. The optical element of claim 1, further comprising a lens formed in the first surface and wherein the plurality of optical structures are formed in the lens.
 - 8. The optical element of claim 7, wherein the lens comprises a lens selected from the group of lens consisting of a linear Fresnel lens, a circular Fresnel lens and a lenticular lens.

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- 9. The optical element of claim 1, each optical structure having a substantially similar configuration to each other optical structure.
- 10. The optical element of claim 1, the optical structures further being uniformly distributed within the pattern.
 - 11. The optical element of claim 1, wherein the plurality of optical structures produce a first optical effect at the first predetermined location and produce a second optical effect, different than the first optical effect, at the second predetermined location.

12. An optical element comprising:

an optically transmissive film, the film having a first surface and a second surface and a first edge and a second edge; and

a plurality of optical structures formed in the first surface, the plurality of optical structures being arranged on the first surface in a predetermined pattern, and wherein each optical structure has at least one characteristic selected from the group consisting of an amplitude, a period and an aspect ratio, and wherein the characteristic has a first value for a first predetermined location on the film between the first edge and the second edge and the characteristic has a second value, different from the first value, for a second

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predetermined location on the film, different than the first predetermined location on the film, between the first edge and the second edge;

a lightguide having an input surface and an output surface; and

the film being coupled to one of the input surface and the output surface of the lightguide.

- 13. The optical element of claim 12, wherein the lightguide comprises one of a wedge, a pseudo-wedge, a slab and a hollow body.
- 14. The optical element of claim 12, wherein the lightguide operates by frustrated total internal reflection.
- 15. The optical element of claim 12, wherein the lightguide operates by diffuse extraction.
- 20 16. The optical element of claim 12, wherein the characteristic is decreased in intensity from the first predetermined location at the second predetermined location.
- 25 17. The optical element of claim 12, wherein the first predetermined location is substantially adjacent the first edge.

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- 18. The optical element of claim 17, wherein the optical structures are configured to provide diffusion.
- 19. The optical element of claim 12, wherein the characteristic has a maximum value at the first predetermined location and a minimum value at the second predetermined location.
 - 20. The optical element of claim 12, wherein each optical structure comprises a discrete optical formation within the first surface.
 - 21. The optical element of claim 20, wherein the plurality of optical structures are arranged to provide diffuse extraction of light from the light guide.
 - 22. The optical element of chaim 12, wherein the optically transmissive film is bonded to the lightguide.
- 23. The optical element of claim 12, wherein the optically transmissive film is adhesively bonded to the lightguide.

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Q4. An optical element comprising:

a first surface and a second surface and a first edge and a second edge; and

a plurality of optical structures formed in the first surface, the plurality of optical structures being arranged on the first surface in a predetermined pattern, and wherein each optical structure has at least one characteristic selected from the group consisting of an amplitude, a period and an aspect ratio, and wherein the characteristic has a first value for a first predetermined location on the first surface between the first edge and the second edge and the characteristic has a second value, different from the first value, for a second predetermined location on the first surface, different than the first predetermined location on the first surface, between the first edge and the second edge.

- 25. The optical element of claim 24 comprising an optically transmissive film.
- 26. The optical element of claim 24 comprising an optically transmissive wedge.

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The optical element of claim 24, further comprising 27. a plurality of optical structures formed in the second surface, the plurality of optical structures being arranged on the second surface in a predetermined pattern, and wherein each optical structure has at least one characteristic selected from the group consisting of an amplitude, a period and an aspect ratio, and wherein the characteristic has a first value for a first predetermined location on the second surface between the first edge and the second edge and the characteristic has a second value, different from the first value, for a second predetermined location on the second surface, different than the first predetermined location on the second surface, between the first edge and the second edge.